

# Department of Executive Services Finance and Business Operations Division Procurement and Contract Services Section 206-684-1681 TTY Relay: 711

### INVITATION TO BID

DATE ISSUED:	March	24.	2004
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ITB Title: TRUCK CAB & CHASSIS, 33,000# GVWR, WITH SERVICE

**BODY AND 40 FT INSULATED MANLIFT** 

ITB Number: IT 12653-AAB

Due Date: April 6, 2004 - 2:00 P.M.

Buyer: Amon Billups, amon.billups@metrokc.gov, (206) 263-4270

#### ADDENDUM NO.1

This addendum is issued to revise the original Invitation to Bid ITB 12653-AAB, advertised March 4, 2004, as follows:

- 1. Change the bid opening date from March 30, 2004, to Tuesday, April 6, 2004, at 2:00 P.M. exactly.
- 2. Paragraph 4-1, Delivery; change "one hundred twenty (120) days" to read "one hundred ninety (190) days"
- 3. Replace Section 5 Technical Specifications, with Section 5 Technical Specifications (Rev.1), attached. Return of original Section 5 pages is not required.

### TO BE ELIGIBLE FOR AWARD OF THIS INVITATION TO BID, THIS ADDEMDUM MUST BE SIGNED AND SUBMITTED ALONG WITH THE ORGINAL INVITATION TO BID OR UNDER SEPARATE COVER.

#### PRE-BID CONFERENCE

Sealed Bids are hereby solicited and will **ONLY** be received by:

King County Procurement Services Section Exchange Building, 8<sup>th</sup> Floor 821 Second Avenue Seattle, WA 98104-1598

> Office Hours: 8:00 a.m. - 5:00 p.m. Monday - Friday

#### BIDDERS MUST COMPLETE AND SIGN THE FORM BELOW (TYPE OR PRINT)

Company	Address	City / State / Postal Code
Authorized Representative / Title	Signature	Phone
Company Contact / Title	Email	Phone
Delivery guaranteed:   Yes   No	Days after order:	Prompt Payment Discount Terms:%Days, Net

This Invitation to Bid will be provided in alternative formats such as Braille, large print, audiocassette or computer disk for individuals with disabilities upon request.

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### **SECTION 5 - TECHNICAL SPECIFICATIONS (REV. 1)**

### MINIMUM SPECIFICATIONS FOR ONE OR MORE DIESEL TRUCK CHASSIS WITH SERVICE BODY AND 40 FOOT INSULATED MANLIFT

#### MINIMUM SPECIFICATION

**STATE ITEM OFFERED** 

The following shall describe a 40 feet to the bottom of the platform, combination articulating, telescoping, insulated aerial device, along with a steel line service body and diesel powered truck chassis. The aerial device shall be designed in accordance with current industry and engineering standards applicable and accepted for structural and design safety factors. Truck chassis shall include 2004 certified and compliant diesel engine.

standards applicable and accepted for structural and design safety factors. Truck chassis shall 2004 certified and compliant diesel engine.					
5-1	AER	RIAL DEVICE:			
	A.	The	aerial device shall provide the following:		
		1.	Height, to bottom of platform 40 ft.		
		2.	Working height 45 ft.		
		3.	Maximum stowed travel height to be 11 ft 9 in		
		4.	Platform shall have a minimum rated capacity of 350 lbs		
		5.	All steel parts including the lower boom, mast, pedestal and outriggers shall be primed and painted with a powder coat finish which provides a finish-painted surface that is highly resistant to chipping, scratching, abrasion and corrosion, or polyurethane paint. Paint is to be electro-statically applied to the inside as well as the outside of fabricated steel parts. The parts are then to be high temperature cured prior to assembly ensuring maximum coverage and protection."		
		6.	When completed, the complete aerial unit shall be stability tested as per the aerial's rated capacity in all working positions in conjunction with all current ANSI A92.2-2001 standards		
		7.	The Boom shall be a non-over center, articulated type aerial with a telescoping upper boom. The Pedestal shall be mounted behind cab		
		8.	The aerial shall be dielectrically tested and certified for ANSI Category C, 46kV and below		
		9.	The aerial pedestal shall be of welded steel construction, will access holes in the pedestal sides for inspection and servicing. Bolt-on cover plates for the openings shall be included.		
		10.	The Turntable shall be a shear ball type, providing 360 degrees continuous and unrestricted in either direction		

11. The rotation motor shall be a self-locking worm gear drive.

An eccentric ring adjustment shall be provided to adjust

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### **MINIMUM SPECIFICATION**

		backlash. A hex shaft extension shall be included to provide for manual rotation in the event of hydraulic system failure.
B.	Boo	ms:
	1.	The Lower boom shall be a rectangular high strength steel tube with a high strength fiberglass insert providing a minimum insulation gap of 12 inches.
	2.	The lower boom travel arc shall be from 0 degrees to 80 degrees using a double acting hydraulic cylinder equipped with an integral holding valve.
	3.	The main outer Upper boom shall be constructed of high strength steel with a fiberglass boom insert. The boom insert shall provide 24 inches insulation when the telescopic boom section is fully retracted. The boom shall travel -16 degrees to +75 degrees using a double acting hydraulic cylinder equipped with an integral holding valve.
	4.	The main inner boom shall be of "high strength fiberglass construction, and manufactured for high strength and low deflection under load."
	5.	The inner boom shall extend and retract via a double-acting cylinder with an integral holding valve
	6.	For ease of movement and extended wear, the fiberglass inner boom shall travel in/out on adjustable polymer rollers
	7.	Upper boom shall be coordinated to allow for operating with the upper boom maintaining the same angle regardless of the lower boom position
	8.	The boom installation shall include a tie down strap and rest in the floor of the body with a platform rest installed on the body tail shelf
C.	Aer	al Platforms:
	1.	The aerial platform shall be of all fiberglass construction, and 24" x 36" x 42" in size for added interior room with toe relief on three sides to reduce back strain. Platform capacity shall be rated at 350 pounds. A hydraulic powered platform rotator shall power the unit around the boom tip a minimum of <b>90</b> degrees, and include a hydraulic tilt mechanism. Shall also include vinyl storage/travel cover.
	2.	Platform controls shall include the following:
		a. Single stick, control head to operate upper boom up/

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### MINIMUM SPECIFICATION **STATE ITEM OFFERED**

	b.	A separate control lever to activate the lower boom up or down	
	c.	Platform rotation and leveling control levers	
	d.	Stop/start, Emergency Power control plungers	
	e.	A safety ring shall be located at the platform to anchor the operator's safety harness	
	f.	A lifting eye shall be attached for light duty material handling without an operator in the platform. Capacity rating: 400 lbs	
	g.	Jib socket located at end of boom suitable to enable the use of existing jib winches already in use by King County. All controls and plumbing necessary to operate winch. If alternate material handler socket is offered, bid must include complete handler jib, winch and all necessary controls to operate	
	h.	Platform leveling shall be accomplished via a master/slave cylinder leveling type system	
	i.	The lower control station is stationary and separate from the aerial pedestal shall over-ride the platform controls including all aerial functions (including jib winch control) except for the platform rotator. Stop/start, throttle advance, Emergency Power shall also be provided at the lower stationary control station.	
The	aer	ial device shall also include the following:	
1.	ou	ability for the completed aerial shall be via a set of A-frame triggers with the total spread not to exceed 120 inches at penetration.	
2.	eitl	e outrigger feet shall have the outer and inside edges her roller or round stock cold roll steel welded on to help event the edges from digging into the ground surfaces.	
3.	op set be	interlock system shall be installed that will prevent the eration of the aerial unless the outriggers are placed and in a working position on the ground. An override switch shall installed for use of the Fleet Maintenance department ring servicing.	
4.	6 C an	e hydraulic system shall be a full pressure, rated for GPM @ 2200 PSI. An 16 gallon hydraulic reservoir with ti-splash baffles shall be located for easy maintenance d include a 100 mesh suction screen, 10 micron return line	

D.

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			filter, and a dipstick convenient to the operator for their daily inspections.	
		5.	The reservoir shall have the breather cap located directly above the tank with the external fill cap a sealed non-breathing type.	
		6.	Shut off valves shall be installed in the hydraulic system to prevent loss of hydraulic oil during maintenance. The oil shall be Kendall "Glacial Blue" or approved equal for use in insulated aerial equipment.	)
		7.	The hydraulic pump shall be driven via a hot shift activated PTC An in-cab switch on the Wire Rite panel shall energize the syste A warning light shall advise the operator when-ever the system is on.	
		8.	A PTO hourmeter shall be installed into the Wired Rite panel.  Hourmeter shall activate whenever the PTO is engaged.	
		9.	An Emergency Power system shall be installed for use at the Upper or lower control stations in the event the Chassis Engine will fail to continue operation. The system shall be 12 vo and a separate, isolated deep cycle marine grade battery shall be utilized for the emergency power system.	lt
5-2	TRU	ICK C	HASSIS SPECIFICATION:	
5-2	TRU A.		eral:	
5-2				
5-2		Gen	neral:	
5-2		Gen 1.	neral:  To be 33,000 lb. GVWR 4 x 2 truck chassis minimum	
5-2		Gen 1. 2.	reral:  To be 33,000 lb. GVWR 4 x 2 truck chassis minimum  12,000 GAWR - Front	
5-2		Gen 1. 2. 3.	To be 33,000 lb. GVWR 4 x 2 truck chassis minimum  12,000 GAWR - Front  21,000 GAWR - Rear  84" cab to axle measure	
5-2	A.	Gen 1. 2. 3. 4.	To be 33,000 lb. GVWR 4 x 2 truck chassis minimum  12,000 GAWR - Front  21,000 GAWR - Rear  84" cab to axle measure	
5-2	A.	Gen 1. 2. 3. 4. Fran	To be 33,000 lb. GVWR 4 x 2 truck chassis minimum  12,000 GAWR - Front  21,000 GAWR - Rear  84" cab to axle measure  me:  Chassis frame to be heat treated alloy steel, minimum  110,000 PSI, 14.5 section modules and at least 1,630,000	
5-2	A.	Gen 1. 2. 3. 4. Fran 1.	To be 33,000 lb. GVWR 4 x 2 truck chassis minimum  12,000 GAWR - Front  21,000 GAWR - Rear  84" cab to axle measure  me:  Chassis frame to be heat treated alloy steel, minimum  110,000 PSI, 14.5 section modules and at least 1,630,000  RBM. All components shall be secured with "HUCK" bolts.	
5-2	A. B.	Gen 1. 2. 3. 4. Fran 1.	To be 33,000 lb. GVWR 4 x 2 truck chassis minimum  12,000 GAWR - Front  21,000 GAWR - Rear  84" cab to axle measure  me:  Chassis frame to be heat treated alloy steel, minimum  110,000 PSI, 14.5 section modules and at least 1,630,000  RBM. All components shall be secured with "HUCK" bolts.  Front bumper to be full width, aerodynamic, HD steel	
5-2	A. B.	Gen 1. 2. 3. 4. Fran 1.	To be 33,000 lb. GVWR 4 x 2 truck chassis minimum  12,000 GAWR - Front  21,000 GAWR - Rear  84" cab to axle measure  me:  Chassis frame to be heat treated alloy steel, minimum 110,000 PSI, 14.5 section modules and at least 1,630,000  RBM. All components shall be secured with "HUCK" bolts.  Front bumper to be full width, aerodynamic, HD steel  at Axle:	
5-2	A. B.	Gen 1. 2. 3. 4. Fran 1.	To be 33,000 lb. GVWR 4 x 2 truck chassis minimum  12,000 GAWR - Front  21,000 GAWR - Rear  84" cab to axle measure  me:  Chassis frame to be heat treated alloy steel, minimum 110,000 PSI, 14.5 section modules and at least 1,630,000  RBM. All components shall be secured with "HUCK" bolts.  Front bumper to be full width, aerodynamic, HD steel  at Axle:  I-Beam type front axle with 12,000 lb. capacity  Taper leaf shackle type front springs, 12,000 lb capacity	

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### MINIMUM SPECIFICATION

D.	Bral	kes:	
	1.	Brake system, air dual type for straight trucks	
	2.	Air compressor air supply line routed through the air cleaner _	
	3.	Brake lines color coded nylon	
	4.	Drain valve, with extended cable to convenient location _	
	5.	Dust shields for front and rear brakes	
	6.	Gauge, air pressure dual	
	7.	Inversion valve and double check valve or approved equal _	
	8.	Slack adjusters, front and rear automatic type, Haldex only acceptable brand	
	9.	Air brake ABS for full vehicle wheel control system, 4-channel	
	10.	Bendix AD-IP heated air dryer with automatic drain valve	
	11.	Manual, pull cable air tank(s) drain valve	
	12.	Brakes front, extended life air, S-cam 16.5 x 5 inch brake chambers.	
	13.	Brakes rear, extended life, S-cam 16.5 x 7 inch. To include Long-stroke, self breathing brake chambers facing forward and heavy duty spring actuated parking brake	
	14.	Air compressor, 13.2 CFM, Bendix Tu-Flo 550 or equal	
	15.	Tow package for air brake trailer, air, 7-way round pin industrial electrical receptacle wired to ICC standards, glad hands and Two, 2-inch square reinforced receivers with a removable hitch, mounted at the rear of the body. Receivers located 21" and 31" on center above ground. Additional right side mounted Phillips ISO 3731wired for trailer ABS, plugs to be wired to supplied, King County schematic	
E.	Stee	ering:	
	1.	To be a Ross or Sheppard Power steering gear	
F.	Exh	naust System:	
	1.	Exhaust system to be a single horizontal muffler and tail pipe of aluminized steel with a left side exit just forward of the rear tires at a 45 degree angle	
	2.	Engine to comply with all 2004 EPA emission standards	
G.	Elec	ctrical System:	

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### **MINIMUM SPECIFICATION**

	1.	Electrical system to be 12-volt as standard with all necessary factory wiring, connectors for engine/transmission interface for remote throttle, start/stop, neutral, PTO enable and lighting	
	2.	Engine shutdown electric, key switch operated	
	3.	140 amp Leece Neville alternator	
	4.	Three (3) maintenance free 12-volt batteries with 1950 CCA mounted under cab on right or left side.	
	5.	AM/FM radio and speakers	
H.	Fror	nt End:	
	1.	Front end tilting fiberglass hood with a forward sloping nose;	
	2.	Positive hood latching	
	3.	Paint color to be bright white base coat, clear coat	
	4.	Adrian storage compartment mounted between the driver and passenger seats or equal	
	5.	Premium cab sound insulation package	
I.	Eng	gine:	
	1.	Inline six cylinder diesel 210 minimum 520 ft. lb. torque @ 1,440 RPM; 2,500 RPM governed speed. Must be 2004 EPA Certified and compliant	
	2.	Heavy duty cooling system with long life hoses and constant pressure clamps, state hose type.	
	3.	Maximum engine block heater recommended by the chassis vendor for this application, plug-in to be left side cab mounted _	
	4.	Engine brake	
	5.	Block heater with receptacle located left side cab entry	
J.	Trar	nsmission:	
	1.	Transmission to automatic, 5-speed with opening for a 6-bolt PTO to drive the mounted engine; Allison 2000P series	
	2.	Shift linkage <b>mounted convenient to driver</b> with automatic park brake engagement when the transmission is shifted into park.	king
K.	Rea	ar Axle, Suspension:	
	1.	Axle, rear, single reduction, 21,000 lb capacity	
	2.	Springs, rear to be vari-rate 23,000 lb capacity with at least 4,500 lb overloads for stability	

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### MINIMUM SPECIFICATION STATE ITEM OFFERED

	<b>-</b>	I Taulia.
L.	rue 1.	I Tanks:  Single step type fuel tank, with 50 gallon capacity
		to be mounted under driver side of cab.  To include center and bottom steps for easy entry.
M.	Cab	
	1.	Conventional style cab
	2.	LED clearance marker lights on top of cab
	3.	Mirrors to be West Coast type Moto-Mirror with 4-way adjustment from inside cab and break-away feature and heated mirror heads; 6-inch bolt-on, stainless steel, spot mirrors heads both sides. Additional r/s fender mounted convex mirror.
	4.	Gauge cluster to be English with electronic speedometer and tachometer, engine hourmeter, and full gauge instrumentation.
	5.	Driver and passenger high back air ride seats with air adjustable lumbar support. Seats to have integral head-rests, seat back adjustment and armrests. "Cordura" covered
	6.	Three point lap and shoulder harness seat belts for driver and passenger
	7.	Largest capacity heater/defroster with air conditioning
	8.	Deluxe cab interior trim package to include full cab insulation and liner on doors and cab interior, gray interior colors
	9.	Storage pockets for driver and passenger sides, overhead console for installation of County radio(s)
	10.	Tilt steering wheel
	11.	Storage pockets in driver and passenger doors
	12.	Access grab <b>handles</b> on driver and passenger sides of cab exterior
	13.	Tinted glass all around
	14.	Dual sun visors and exterior mounted sun-visor
	15.	Electronic intermittent windshield washer/wipers with "mist" feature delay
	16.	Electronic type backup alarm; to be at rear of service body
	17.	Door activated <b>center</b> dome light <b>and</b> built-in map lights installed above driver and passenger with individual switches.

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MININ	/UM S	SPEC	IFICATION	STATE ITEM OFFERED
		18.	Cup holders	
		19.	Minimum of three (3) 12-volt power points for additional driver and passenger use	
		20.	Molded rubber flooring for easy cleanout	
		21.	Rubber floor mats	
	N.	Tire	s:	
		1.	Highway ribbed front tires with all season traction lug rear Tires	
		2.	Front tires: Goodyear,11R22.5 G186 radial with a minimum of 14 ply	
		3.	Rear tires: Goodyear, 11R22.5 G328 radial with a minimum of 14 ply	
		4.	Wheels: to be painted (white) steel disc 22.5" diameter x 8.25, 10 stud, hub piloted	
5-3	LIN	E SEF	RVICE BODY:	
	A.		all-steel, welded, galvanized Line Service Body shall be alled onto the truck chassis	
	B.	Dim	ensions:	
		1.	Length: 146 inches	
		2.	Overall width: 93 inches	
		3.	Height: 46 inches	
		4.	Floor width: 57 inches	
		5.	Compartment depth: 18 inches	
		6.	Rear tail shelf, 20" long, full width	
	C.	Con	struction:	
		1.	A-60 galvanneal steel	
		2.	Bin sides and tops to be 16 gauge, bin tops shall be treadplate steel, coated with non-skid paint	
		3.	Bin bottoms shall be reinforced with an additional 16 gauge pan for added strength	
		4.	12 Ga. Treadplate steel floor, tail shelf surface, and compartment tops	
		5.	Compartment tops shall have a 45 degree formed rain drip edgalong the exterior of the body	ge 

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### MINIMUM SPECIFICATION STATE ITEM OFFERED 6. Double paneled, 20 Ga. Outer and inner door panels 7. 18 Ga. galvanized shelving 8. Body understructure shall consist of 6" x 8.2 lb structural steel longitudinal channel, with 4 in. structural steel channel cross members The cross members shall be butted into the longitudinals for a 9. lower overall finished height. The front and rear panels shall be reinforced to the understructure of the body with flat bar steel The body and chassis shall be fully undercoated, with a double coating applied into the wheel wells of the service body 11. Door locks shall be Automotive type recessed rotary latches, with the locks all keyed alike 12. All doors shall be double paneled, with Rod and Socket hinges; no Piano hinges accepted 13. Doors to have built-in moisture drains and diverter trim on the forward leading edge of all bin doors 14. Automotive bulb type doors seals 15. Each compartment shall have clean out plugs installed, and the interior walls between compartments shall have pre-punched minimum 3-inch holes and a cross-ventilating tube at the front of the body 16. Spring loaded stops on all doors. Horizontal doors shall be top hinged with gas charged struts to hold doors up in the open position 17. Rubber rolled crown type fenders installed **COMPARTMENTATION, STREETSIDE:** 5-4 1<sup>st</sup> Vertical, 26 inch, to include four (4) adjustable shelves with dividers on 3 in. centers installed underneath the full length hot stick shelf 2<sup>nd</sup> Vertical, 26 inch, to have four (4) adjustable shelves with B. adjustable dividers on 3 inch centers installed underneath the hot stick shelf C. Horizontal, 65 inch with open bin bottom beneath the hot stick shelf

Rear Vertical, 29 inch, to have a fixed shelf located with a 10 inch

clear opening below the hot stick shelf. Directly below the fixed shelf shall be a pipe rail with 4 sliding hooks and four fixed

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WIINII	VIUW S	SPECIFICATION	STATE ITEM OFFERE
		material hooks on the forward and rear walls of the compartment, 2-0-2	
	E.	Full length hot stick shelf with a shoe box type drop down door. The shelf shall be 18 inches wide, full length of the street side body pack and 8 inches down from the top of the body	
	F.	Top of compartments shall have a full length top opening weather Resistant, bin suitable to hold replacement LED traffic signal lights.	
5-5	COI	MPARTMEMTATION, CURBSIDE:	
	A.	1 <sup>st</sup> Vertical, 32 inch Lineman's locker with a fixed shelf providing 14 inch clear opening and fixed material hooks mounted underneath the shelf, 2-4-2	
	B.	Red Dot model # Bin heater mounted between the frame and the back of the body bin in a steel cabinet. Heater shall be ducted onto t locker and cross-ducted to the street side and curb side rear bins	his
	C.	Body rear on both sides shall have screened vents for positive escape of heated air	
	D.	2 <sup>nd</sup> Vertical, 20 inch shall have 4 adjustable shelves with adjustable dividers on 3 inch centers	
	E.	Horizontal, 65 inch with 1 fixed ¾ depth shelf 13 inches up from the bin bottom with adjustable tapered dividers on 3inch centers. To include tapered dividers on 3 inch centers in the bin bottom.	
	F.	Rear Vertical, 28 inch with 4 adjustable shelves and adjustable dividers on 3 inch centers	
5-6	BOI	DY MISCELLANEOUS:	
	A.	There shall be a pole rack for one (1) 500 lb. luminair pole on the curbside. Rear cradle shall telescope from the rear cradle shall telescope from the bin top to level with the front head guard rack. There shall be rack strap tie downs at each front and rear rack.	
	B.	Storage box mounted top of street side compartments.  Dimensions to be 12" high, 14" deep and 90" long. Top mounted lid to open to bed of truck. Box is to be manufactured from aluminum with all stainless steel hardware.	1
	C.	The tail shelf shall have a through compartment approximately 18 inches wide x 14 inches high with drop down doors on each side. The tail shelf shall be decked and skirted with 12 gauge tread plate to match the body floor.	
	D.	Rear step bumper shall be 12 inches long x full width of 5 inch structural channel covered with flush mounted grip strut.	

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### **MINIMUM SPECIFICATION**

E.	The bumper shall be reinforced for towing and have one cable step. A combo pintle/2 inch ball hitch shall be included on a class IV tube and a snap pin bracket installed for a breakaway cable.	
F.	2 class IV receivers shall be mounted at rear on 21" and 31"centers, with flush mounted safety D-rings and 6-way SAE electrical trailer connector	
G.	A 5 ½ "Wilton model 645 swivel base mechanic's vise shall be installed onto the tail shelf via female receiver sockets built into the to of the rear bumper. Location determined at the time of construction.	р
H.	A retractable conduit holder shall be installed into the curb- side forward wheel well chock opening.	
l.	Furnish and install a <b>pure sine wave Dimensions</b> 3000 watt inverter Location to be determined at the time of construction. Electrical to include auxiliary battery, control switches and constant duty solenoid disconnect to isolate <b>separate HD high cycle</b> battery	
J.	There shall be 1 waterproof Duplex Marine grade 120 VAC GFCI outlet installed at the curbside rear, and 1 outlet Installed on the curbside front of the body	
K.	A ratcheting self retracting 120 cord reel with 50 ft of HD power cord shall be attached to the pedestal above rotation with the appropriate hazard placarding	
L.	The vendor shall ensure that the hydraulic system is properly sized to accommodate the workload of the Aerial, tool circuits	
M.	Hydraulic pump and PTO shall be set for optimum performance at a chassis engine high idle	
N.	Cone storage shall be furnished and installed at the front and rear bumpers. Hoop type storage for the front and post type for the rear	
Ο.	Hook type storage for 4 shovels and pipe storage for 3 round pick tools shall be provided at the front of the body	
P.	A Sonar proximity back-up alarm mounted at the rear tail shelf to activate in the event of unseen obstacles	
Q.	All body bins shall have Vista brand interior track lighting with a common in-cab switch at the Wired Rite panel	
R.	The street and curb side of the body shall have master type locks capable of locking a complete body side at one time	
S.	All body vehicle lighting shall conform to all Federal, State, and local requirements. Truck-Lite rubber grommet mounted sealed "LED" type with Truck-Lite lifetime sealed wire harness for all stop, turn, tail and marker lights on the body.	

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MINIMUM SPECIFICATION STATE ITEM OFFER			
	T.	There shall be a Whelen arrow stick recess mounted into the rear tail shelf with in cab control	
	U.	A Collins Dynamics FX 12 spotlight with base shall be installed on each corner of the body. Each work light shall be switched separately with a master on the Wired Rite panel in the cab.	
	V.	Furnish and install a Collins Questar # CD-QS-1 roof mounted spot light onto the passenger side of the chassis cab.	
	W.	A Whelen Edge #9M142000 and 9MH4AAAA strobe and halogen light bar to be installed on the chassis roof with a permanent mount Kit. Switched on and off from the Wired Rite panel.	
	X.	(2) Whelen model HA238C hide-away strobes to be installed in the front grill of the chassis hood; (2) Whelen #508 linear strobes with amber lenses to be installed on the rear panels of the body. All lights to have adjustable intensity and a Whelen # CSP660 power supply shall operate the safety lighting with dash mounted control switches and labeled for their function.	
	Y.	Rubber wheel chocks (4) and storage shall be installed into the street and curbside wheel well openings	
	Z.	Outrigger pads (18" x 18" x 3") and storage close to the outriggers, to be installed under the body	
	AA.	Mud flaps	
	AB.	All electronics for the body and mounted equipment shall be powered via Wired Rite brand. The control center for the switching shall be installed into the overhead storage pocket directly above the driver station. No exceptions.	) 
	AC.	Body exterior and bin interior shall be painted with Imron 5000 polyurethane paint to match the chassis cab. The bin tops, floor area and rear tail shelf shall have non-skid paint materials applied.	
	AD.	Exhaust system to be spray shielded from the aerial hydraulics. All hydraulic lines that cross sharp corners or edges shall be protected.	
	AE.	Completed unit shall be delivered with two (2) copies of Operator, parts and service manuals for all mounted equipment, as well as the truck chassis	
5-7	WA	RRANTY:	
	A.	Entire machine is to be covered by a 100%, twenty-four (24) month parts and labor warranty. Powertrain shall be warranted for Four (4) years, <b>including engine electronics</b> .	

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### **MINIMUM SPECIFICATION**

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B.	A full time complete parts and service facility offering factory authorized service and a parts supply adequate to perform complete repairs is required. Facility must be within a fifty (50) mile radius of the King County Department of Transportation, Fleet maintenance facility at:155 Monroe Ave NE Renton, WA 98056	
C.	Quote price for factory available warranty programs, above and beyond the base warranty, supply printed literature with bid.	
D.	Inspection of bidder's parts and service facility may be required before bid award.	
E.	King County will be responsible for all warranty and recall work. The successful vendor will reimburse King County for all warranty and recall work at current shop rate of \$63.00 per hour. King County reserves the right to have seller perform warranty work at King County's discretion. Seller must accept responsibility and cost for transportation of unit from within King County to authorized repair facility and or field technician travel time to and from repairs for the base warranty period.	
F.	Warranty shall begin on date unit is placed into service, not delivery date. Vendor will be notified.	
G.	Copies of all applicable warranties must be submitted with bid package. Additional data entry form shall be completed and delivered with vehicle.	i
H.	If unit(s) is sent to dealer or recalled and cannot be repaired within two working days a loaner of comparable size must be supplie to King County at no charge	d
GEN	IERAL:	
A.	Only new models in current production which are cataloged by the manufacturer, and for which printed literature and specifications are available.	
B.	A performance demonstration may be required before bid award. Performance demonstration will be of unit per basic specifications.	
C.	All standard equipment and components necessary for operation and normally supplied shall be furnished, even if not called out in specifications.	
D.	All equipment shall be new. Used, demonstration, rebuilt or remanufactured equipment is unacceptable. All items requested in the specifications must be factory available, no aftermarket equipment will be accepted.	nt
E.	The equipment shall have full dealer preparation and be ready for service when delivered.	

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### MINIMUM SPECIFICATION

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OIVI S	PECI	FICATION	STATE ITEM OFFERE
F.	instruction (2) to trouk deliverships, in the control of the contr	ufacturers approved factory training, conducted by professional uctor proficient in the operation of this equipment, for minimum technicians. Training to cover all unit systems, maintenance, bleshooting and diagnosis. Date and location shall be set upon very of equipment. Training course outline shall be submitted with no exceptions. Date of training to be scheduled and confirmed pelivery of equipment	h
G.	stan be p	rators training covering familiarization and operation of all dard and optional features as unit(s) ordered are equipped shall rovided. Date and location shall be specified when equipment ecepted.	
H.	The	equipment shall be delivered with the following items. equipment shall not be considered delivered until all of the items eceived and accepted by King County DOT, ER&R.	3
	1.	Title application for each unit delivered	
	2.	Manufacturers statement of origin for each unit delivered	
	3.	Original billing invoice	
	4.	Certified weight slip for machine	
	5.	Two (2) lube chart per order	
	6.	One (1) "complete" technical service manual per order	
	7.	One (1) parts manual per order	
	8.	One (1) operators manual per unit	
	9.	One (1) complete set of filters to be supplied with each unit ordered.	
	10.	One (1) list of all consumable maintenance items including description and part numbers. List is to include filters, belts, wiper blades and cooling system hoses applicable to units ordered	
TRA	DE-IN	V:	
A.	must in the trade used	County desires to trade-in the following equipment. All bidders t submit a price for the equipment. If King County deems it to be e County's best interest to retain the equipment and not accept ele-in offer, it may do so. If the trade-in offer is accepted, it will be to determine award to the lowest responsive bid for the new ed	the Juipment.
	King	(1) 1993 Ford F-700 chassis with a Versalift VST4000 aerial bu County equipment number E0T278. Approx. 163,000 miles on	chassis
	Trad	e-in amount offered	\$

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### **MINIMUM SPECIFICATION**

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A.	In addition to the acquisition cost of equipment, this Invitation to Bid addresses King County's need for parts associated with equipment maintenance. Therefore, this bid takes into consideration not only the equipment price, but also the cost of parts and vendor product support after the purchase.		
B.	Service Expectation, the Contractor's employees shall be knowledgeable in the products listed. The Contractor is expected to assist purchasers in making cost effective parts purchases.  Assistance includes but is not limited to suggesting economic order quantities and less costly substitutes of equal quality.		
C.	The Contractor must be an established dealer, currently stocking and supplying a full line, as recommended by the manufacturer, of repair parts for the equipment specified with sufficient facilities, personnel and equipment to perform all requirements, terms and conditions of this Invitation to Bid, in the event of award. A site visit may be made prior to awarding bid to determine if a Contractor is capable of performing within the terms of the contract.		
D.	The manufacturer and Contractor shall guarantee that King County shall not pay a higher price for parts than any other government account purchasing similar quantities. Any special promotions, dealer incentive programs, price cuts, rebates, or warranty extensions offered to similar governmental accounts during the course of the contract shall be passed on to King County.		
E.	Parts	Billing:	
	1.	A PRICED invoice, packing slip or delivery ticket must accompany all deliveries. If a product is shipped direct from the manufacturer, a priced document shall be hand delivered, E-mailed or faxed to King County no later than 24 hours after receipt of shipment.	

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#### **MINIMUM SPECIFICATION**

	2.	uni pro nar the cha sha	ch County Department and/or agency is to be assigned a ique customer number to be used in identifying each sale and oper billing address. Invoices/packing slips must include the me of the person who placed the order, their phone number, sir order number, the unit price, sales tax and other pre-approvarges, if any. A separate packing slip for each order number all be included with the delivery if a shipment combines items m more than one order.	
	3.	ava Kin	e Contractor shall advise the County of any item that is not ailable or will be backordered at the time the order is placed.  In County shall be immediately notified by the Contractor if an sting order will be delayed or not be exactly as ordered.	
F.	Parts	s Re	eturns:	
	1.		ng County reserves the right to return parts if needed. asons for return may include, but are not limited to:	
		a.	item failure or defect	
		b.	wrong item shipped	
		c.	incorrect item ordered	
		d.	item no longer needed	
	2.	sto	e Contractor shall immediately provide a receipt for all returne ock. In accordance with its best interest, King County may ect any of the three restitution options:	d
		a.	Item replacement: Contractor shall provide the replacement item within the time established.	
		b.	Credit: Contractor shall issue a credit within three (3)busines days of receiving an item.	s
		C.	Reimbursement check: Contractor shall issue a reimbursement within twenty (20) business days after receiving an item.	t check
G.	Parts	s Wa	arranty:	
	1.	Items purchased under this contract shall be guaranteed against defect with full credit given. Contractor is responsible for pick-up of defective items or arranging for a Call tag to insure freight is charged to Contractor on defective returns.		
	2.	Products furnished that are below the County's standard or not fit for the intended use shall be returned to the Contractor at their expense.		
	3.		The successful Contractor guarantees the goods and services urnished under this contract shall be free from defects in mate	

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### MINIMUM SPECIFICATION

Н.

I.

	and workmanship, and shall conform with all requirements of this contract. The Contractor is responsible for all costs of replacement, including shipping charges, for goods found to be defective within the warranty period.
4.	King County shall receive the increased warranty benefits if the Contractor or original manufacturer provides a warranty that is greater in scope or duration.
5.	The Contractor shall, upon request, provide the County complete copies of all written warranties or guarantees and/or documentation of any other arrangement relating to such warranties or guarantees extended to the Contractor by their suppliers, Contractors, distributors and sub-contractors covering parts, component, sub-components and systems procured through this contract.
6.	The Contractor shall provide a local representative, authorized to act on their behalf and provide "on the spot" settlement of warranty claims or disputes. When applicable, the Contractor's representative shall be responsible for completing warranty claim documentation, and the packing and shipping of returns to manufacturer.
7.	The expiration or termination of this contract shall in no way relieve the Contractor from its warranty/guarantee responsibility.
8.	Items purchased for inventory shall be warranted from the date of installation by King County or their representative.
Teleph	none Contact:
1.	The Contractor shall provide a contact name and a direct telephone number that is toll free from the King County Department of Transportation. Electronic voice mail is not acceptable as an answering service.
	Contact Name:
	Telephone:
Parts	Catalogs and Price Lists:
1.	Within two (2) weeks of request, Contractor shall furnish all necessary parts catalogs, price lists and/or latest dated published manufacturer's net price lists to customers at no cost.

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### **MINIMUM SPECIFICATION**

J.

Estimated Quantities:		
1.	The items listed represent King County's anticipated approximate requirements and shall be used in the bid evaluation analysis.  Quantities listed are to be purchased on an as needed basis.	
2.	This is NOT a one-time purchase nor authorization to order.	
3.	The County shall be neither obligated by nor restricted to the quantities indicated.	
4.	Parts other than those listed may be obtained under the terms of this contract.	

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#### **BID OPENING LABEL**

Complete the form below (or a reasonable facsimile thereof) and affix to the exterior lower left hand corner of the submission package.

